

Title (en)

Apparatus for driving capacitive light emitting elements

Title (de)

Vorrichtung zum Steuern von kapazitiven lichtemittierenden Elementen

Title (fr)

Appareil pour commander des éléments luminescents capacitifs

Publication

EP 1486940 A3 20050601 (EN)

Application

EP 04253405 A 20040608

Priority

- JP 2003167627 A 20030612
- JP 2003362229 A 20031022

Abstract (en)

[origin: EP1486940A2] An apparatus for driving capacitive light emitting elements which can be reduced in size. For supplying a capacitive light emitting element with a driving pulse which varies the voltage with a predetermined amplitude through a driving line, the driving apparatus comprises a resonance current path including a capacitor, a first switching element for supplying the driving line with a current in accordance with charges accumulated on the capacitor when it is on, and a second switching element for grounding one electrode of the capacitor when it is on, thereby supplying the other electrode of the capacitor with a current in accordance with charges accumulated in the capacitive light emitting element through the driving line. <IMAGE>

IPC 1-7

G09G 3/28

IPC 8 full level

G09G 3/20 (2006.01); **G09G 3/288** (2013.01); **G09G 3/291** (2013.01); **G09G 3/293** (2013.01); **G09G 3/294** (2013.01); **G09G 3/296** (2013.01); **G09G 3/298** (2013.01); **G09G 5/00** (2006.01); **H03K 17/78** (2006.01)

CPC (source: EP KR US)

G09G 3/293 (2013.01 - EP US); **G09G 3/296** (2013.01 - KR); **G09G 3/2965** (2013.01 - EP US); **G09G 2330/023** (2013.01 - EP US)

Citation (search report)

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- [A] US 6304038 B1 20011016 - IDE SHIGEO [JP], et al
- [A] EP 0895217 A1 19990203 - PIONEER ELECTRONIC CORP [JP]

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1486940 A2 20041215; **EP 1486940 A3 20050601**; CN 100359548 C 20080102; CN 1573859 A 20050202; JP 2005025153 A 20050127; JP 4510422 B2 20100721; KR 100709937 B1 20070425; KR 100709938 B1 20070425; KR 20040107421 A 20041220; KR 20060098415 A 20060918; KR 20060098416 A 20060918; TW 200500995 A 20050101; US 2005012725 A1 20050120; US 7345662 B2 20080318

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EP 04253405 A 20040608; CN 200410048475 A 20040610; JP 2003362229 A 20031022; KR 20040043129 A 20040611; KR 20060081627 A 20060828; KR 20060081630 A 20060828; TW 93115801 A 20040602; US 86288204 A 20040608